

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

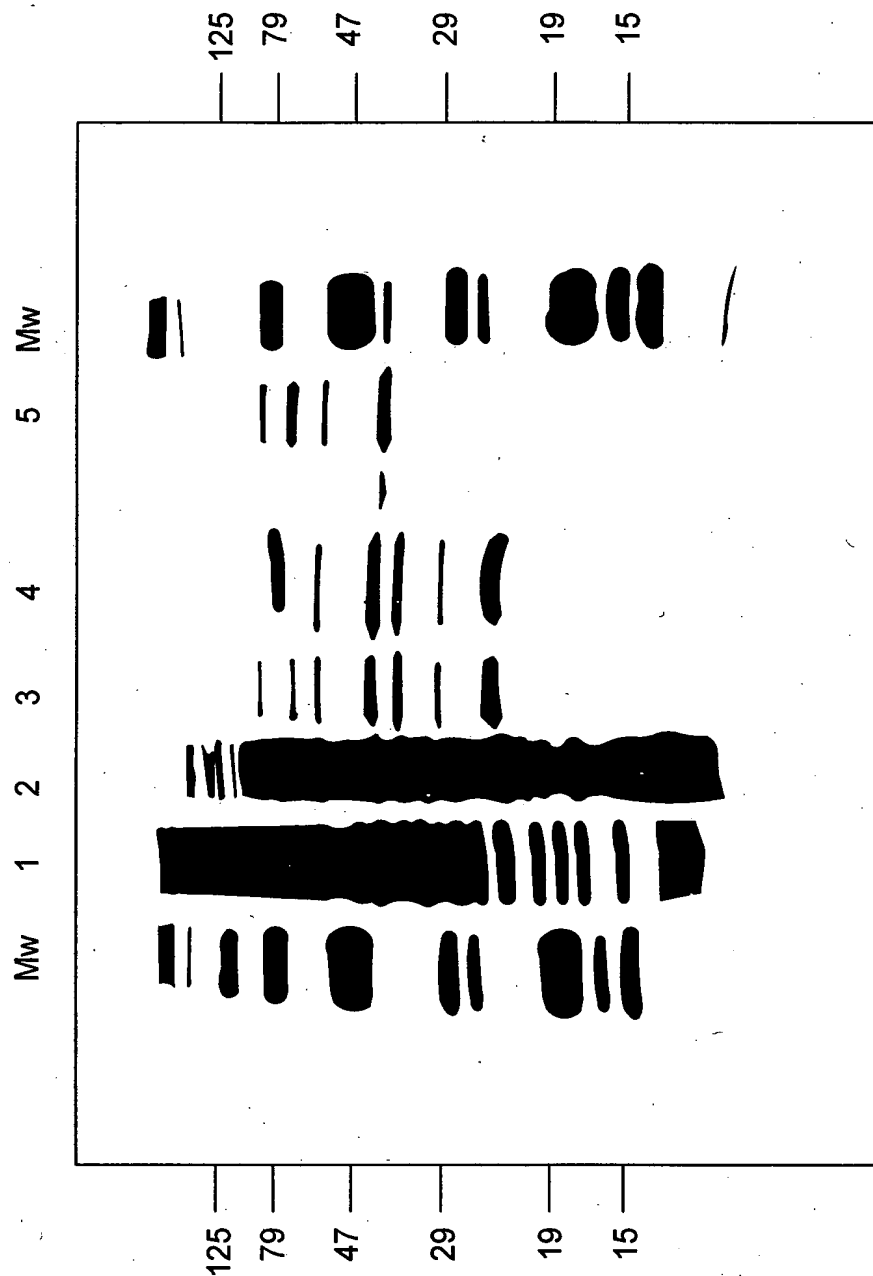
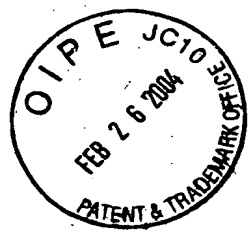


FIG. 1

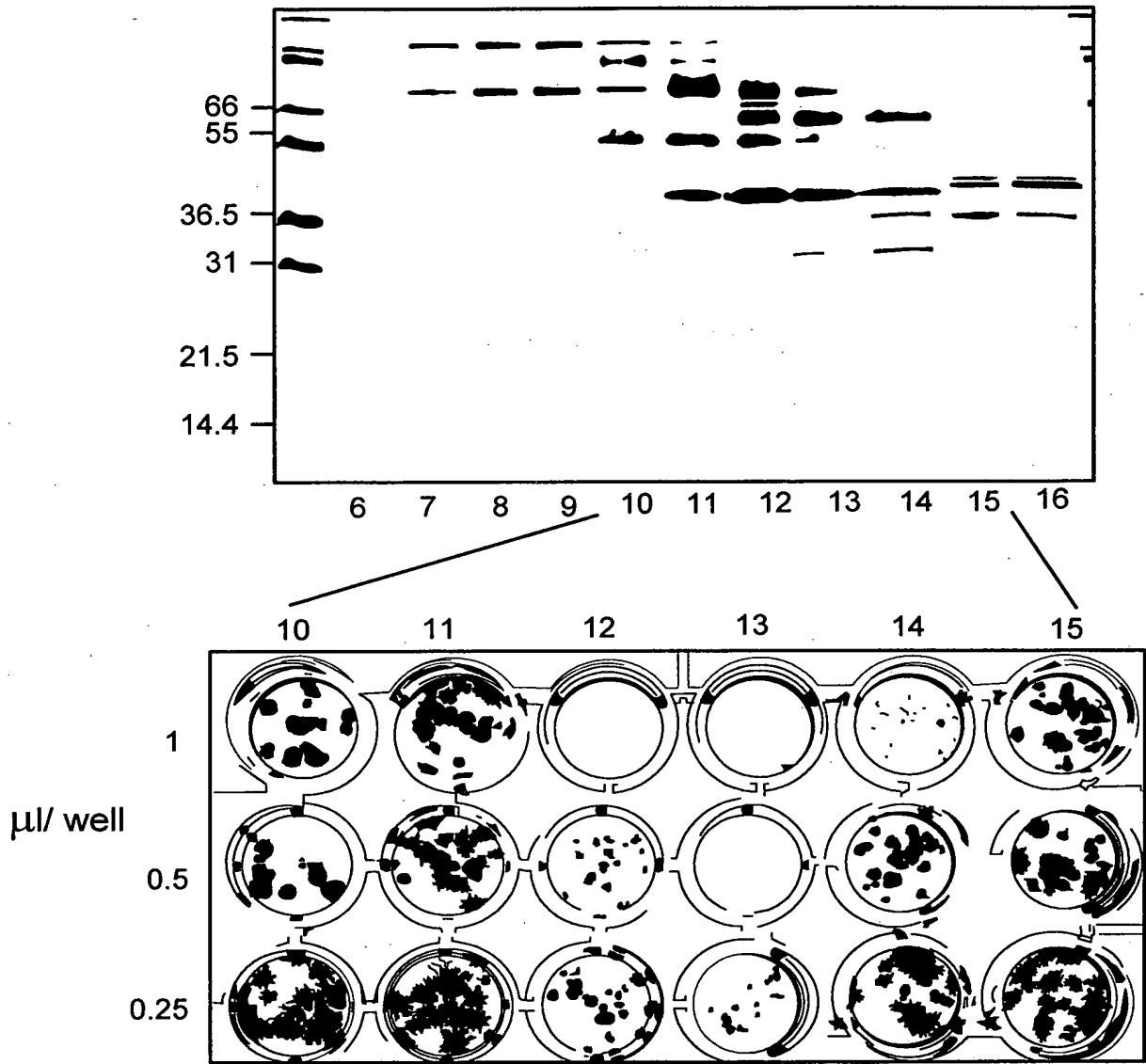
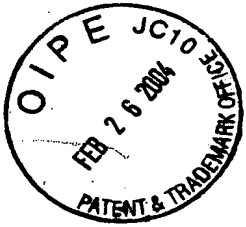


FIG. 2A

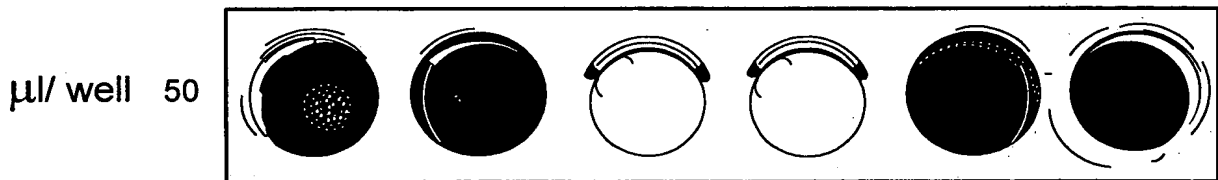


FIG. 2B

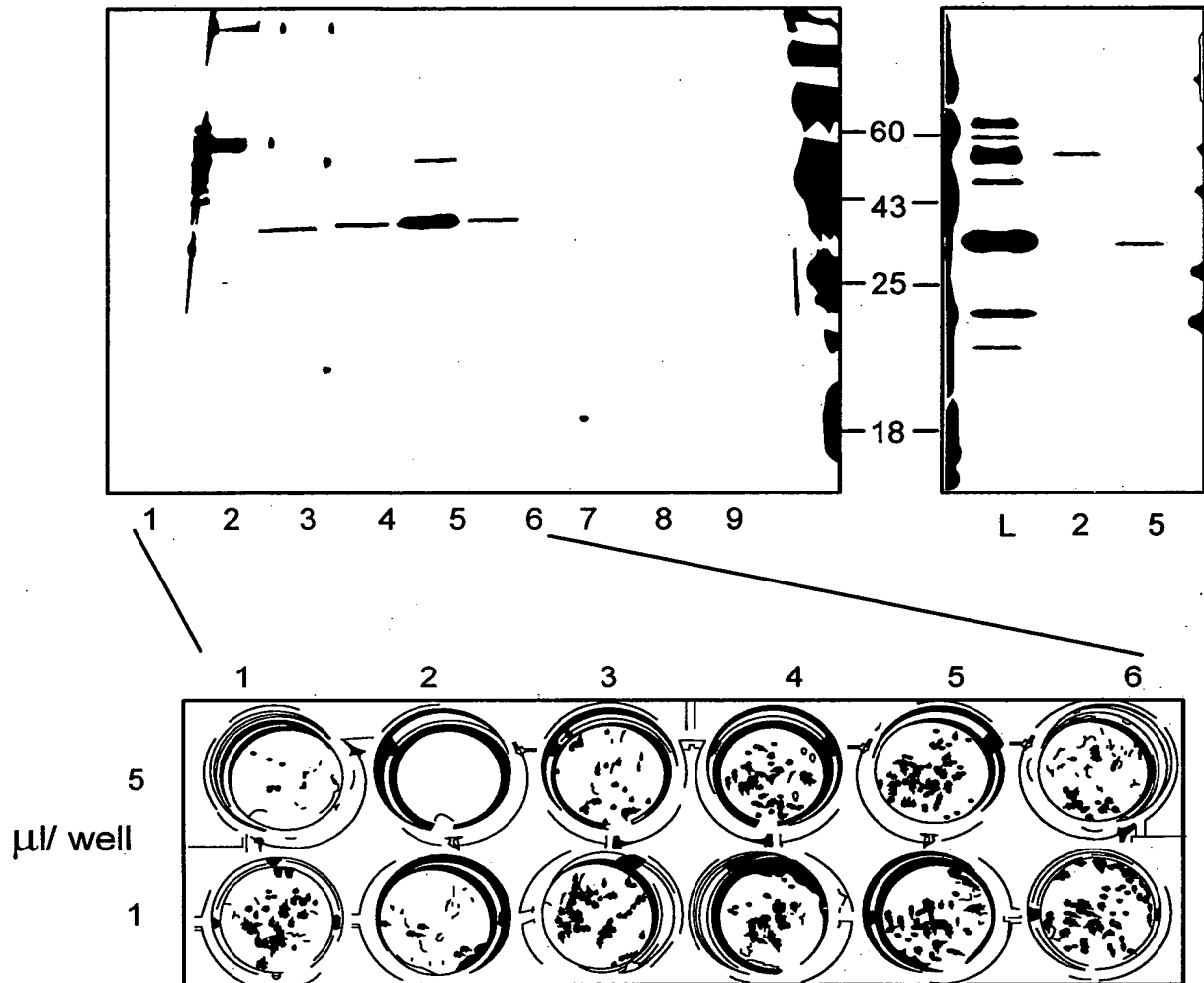
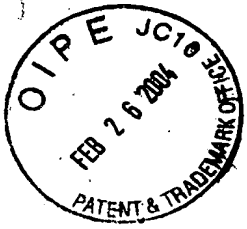
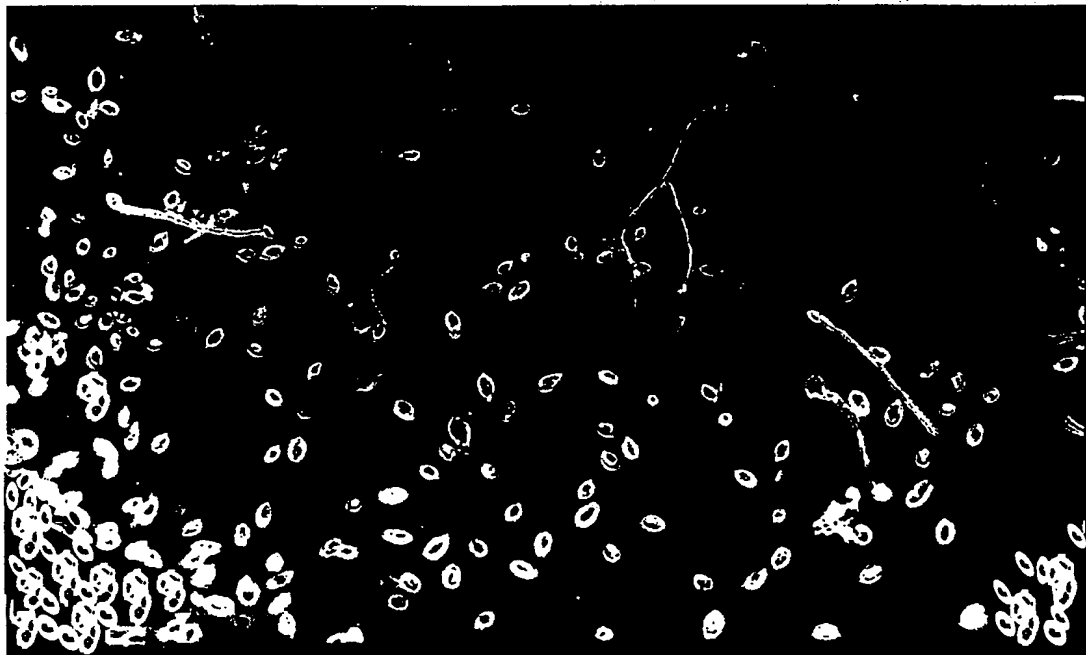
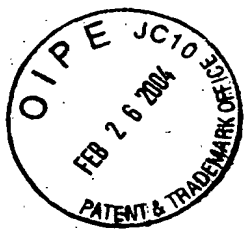
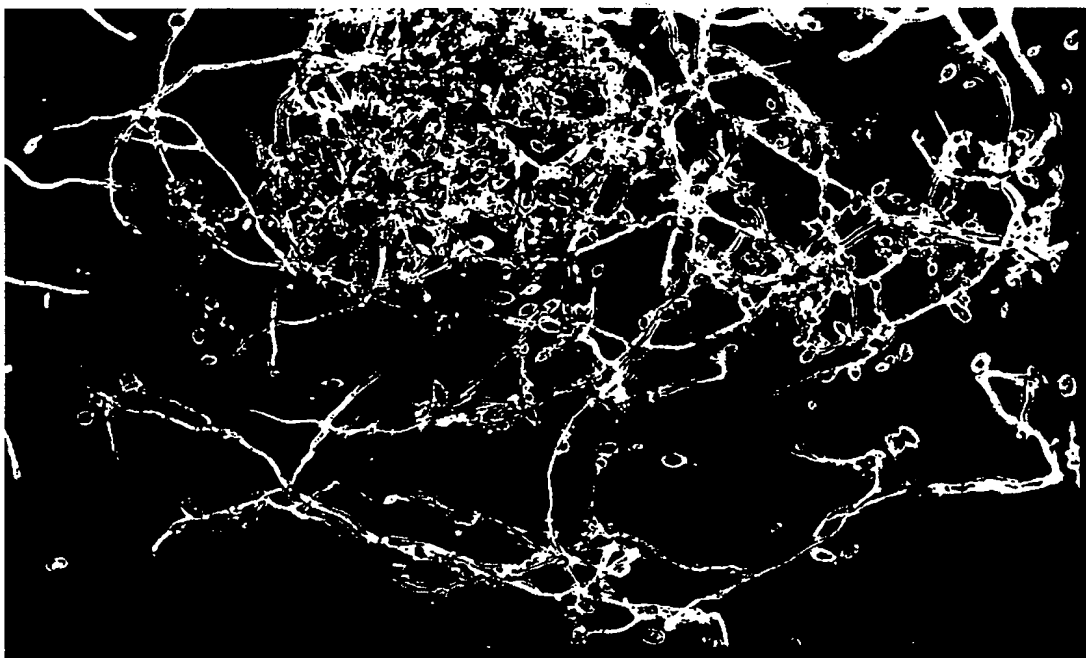


FIG. 3

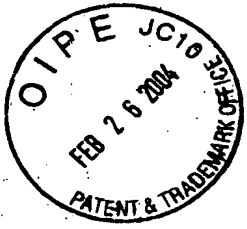


RIGHT



LEFT

FIG. 4



RIGHT



LEFT

FIG. 5

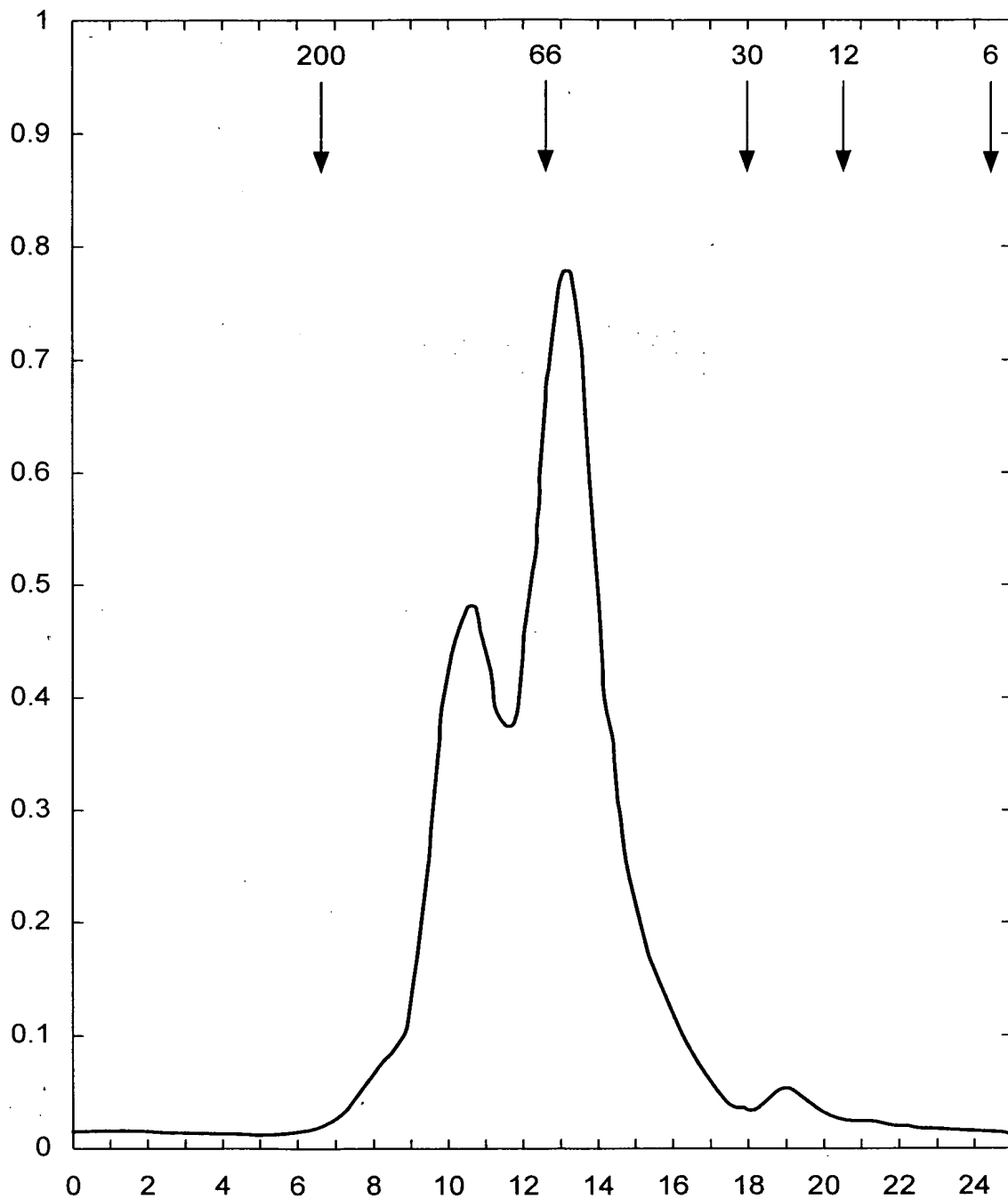
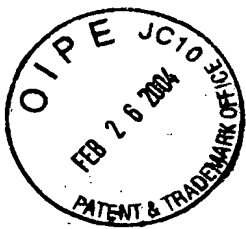


FIG. 6A

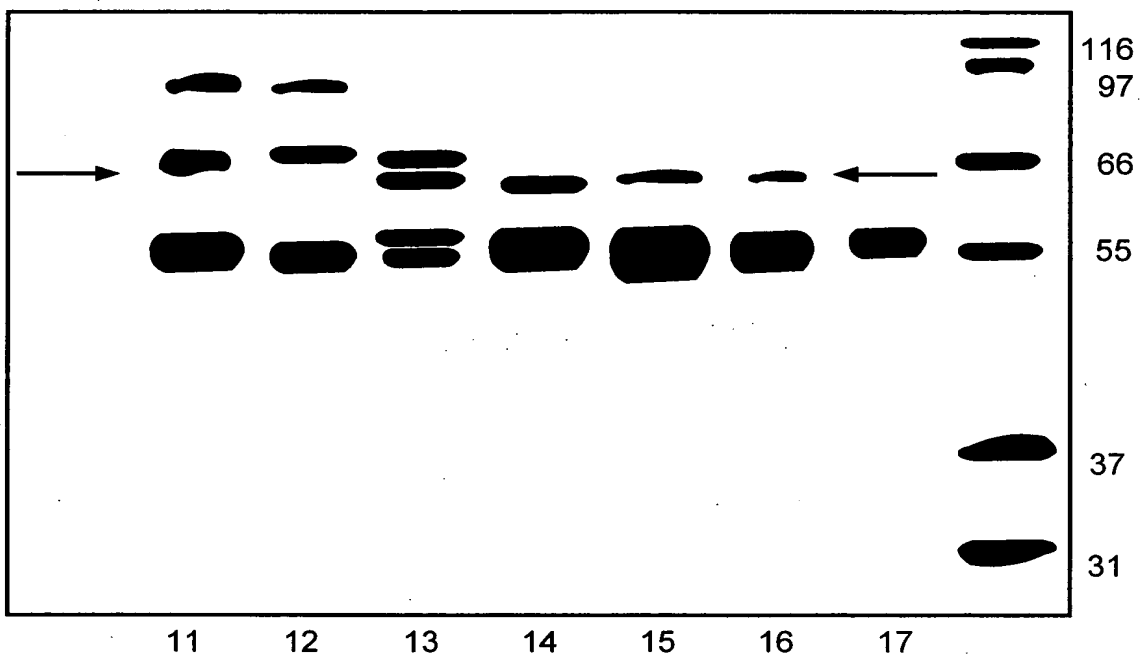
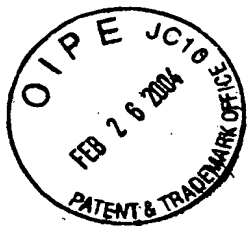


FIG. 6B

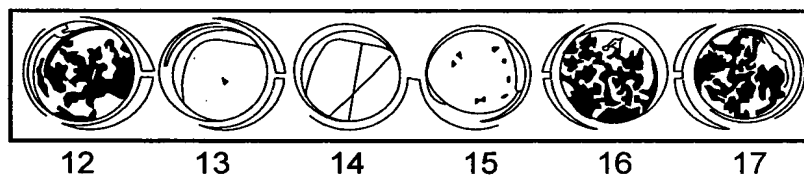


FIG. 6C

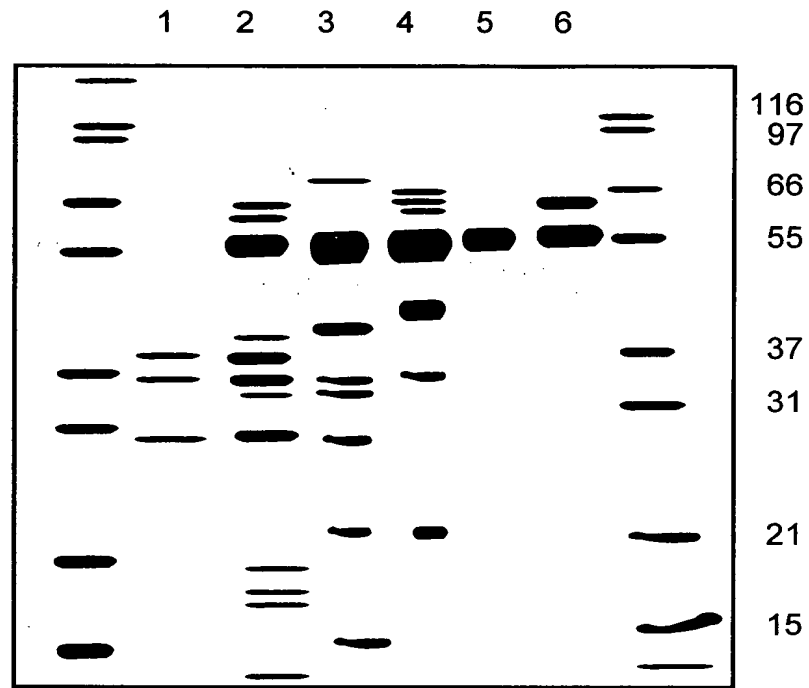
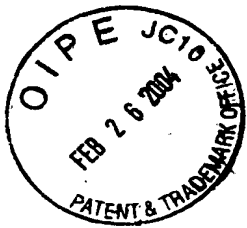


FIG. 7

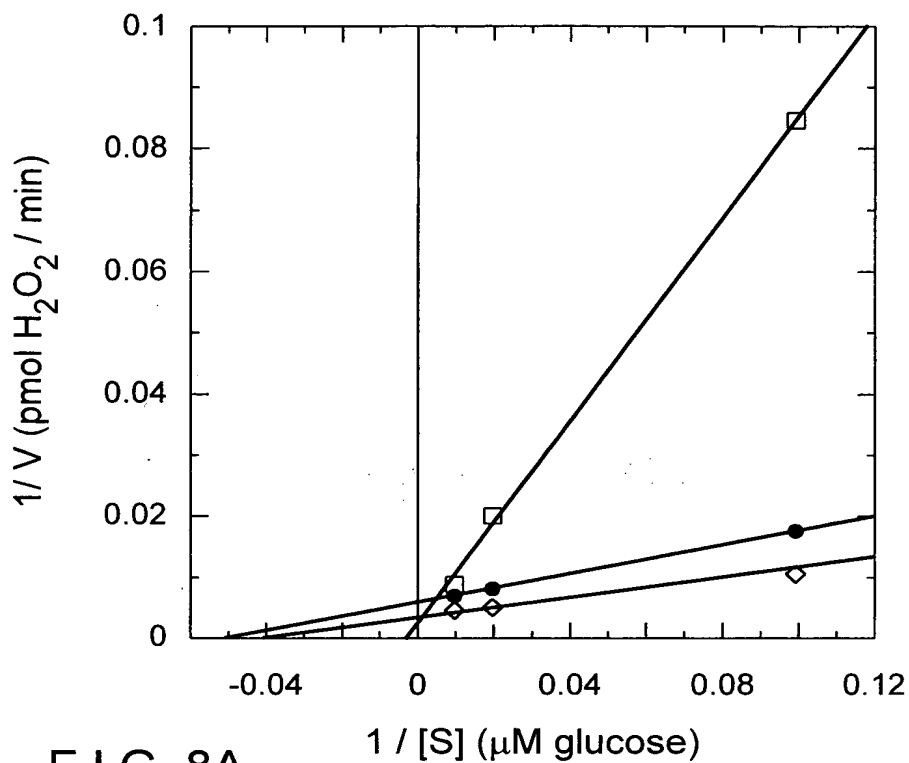
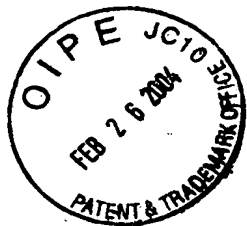


FIG. 8A

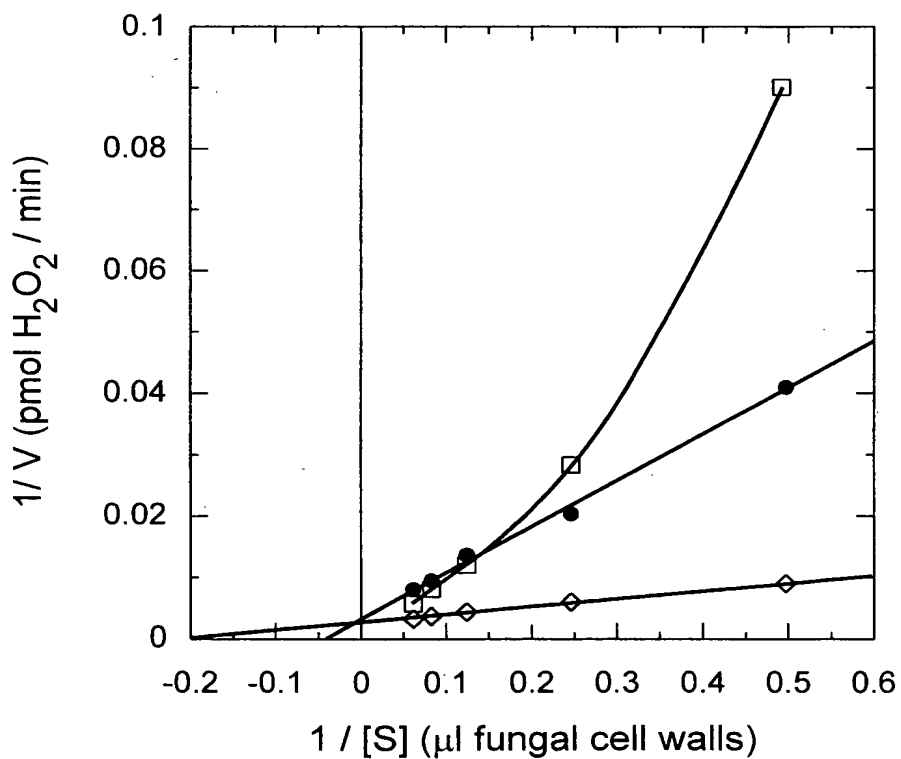


FIG. 8B

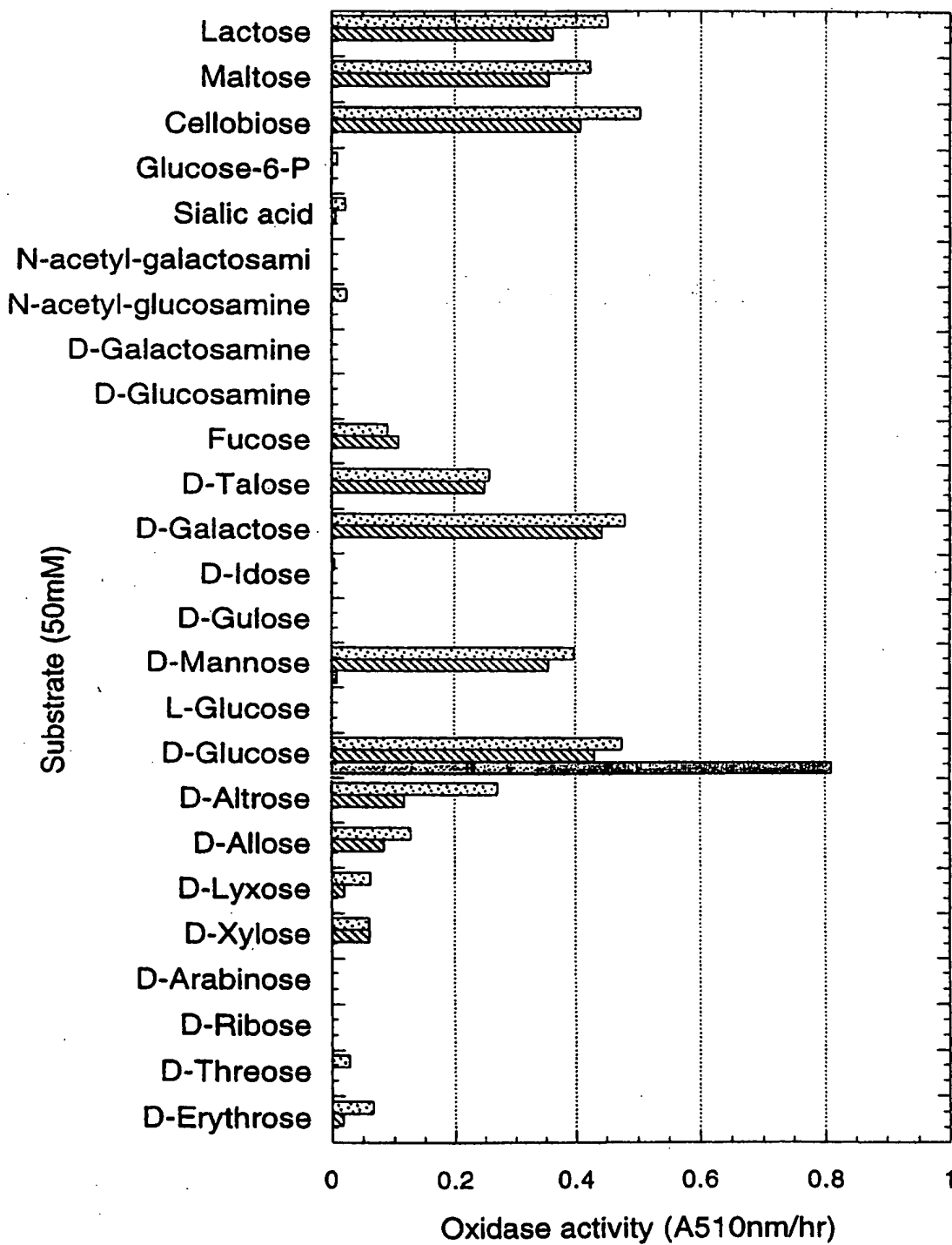
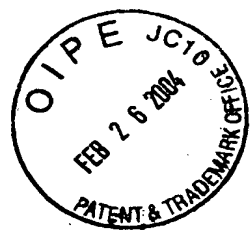
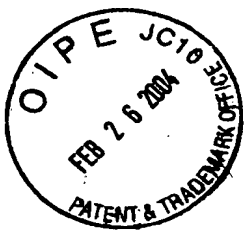


FIG. 9



MS59	1	-----MQTSILTLQLLLSTQSSATSRSTID-RFIQCLHADRADPSFP
WL64	1	MAITYSFNFKSYIFPLQLVLLSTHSSATSTSIID-RFTQCLNNRADPSFP
At26	1	-----TSRRNSE-TFTQCLTSNSDPKHP
At27	1	-----SIQD-QEINCVRKRNTHVSEF
EcBBE	1	-----MENKTPIFFSTISIFLSLLNCA LGG--ND--LLSCITFNGVRNH-
PsBBE	1	-----MMCRSLTLRFFLFIVL-LQTCVRGGDVNDNLLSSCLN SHGVHNF-

MS59	42	ITGEVYTPGN--SSFPTVLQNYIRNLRFNETTPKPFLLIITA EHVSHIQ A
WL64	50	LSGQLYTPDN--SSFPSVLOQYIRNLRFNESTTPKPIILLIT ALHPSHIQ A
At26	23	ISPAIFFSGN--GSYSSVLOQANIRNLRFNTTSTPKPFLLIIAATHESHVQ A
At27	20	LEKTLFTEPAKNVSLFNQVLESTAQNLOFLAKSMKPKPGFIFRPIHQSQVQ A
EcBBE	40	--TVFSADSD--SDENRFLHLSIQNPLFQNSLISKPSAILLP GSKEELSN
PsBBE	44	--TTLSTDTN--SDYFKLLHASMQNPLEAKPTVSKPSFIVMP GSKEELSS

MS59	90	AVVCGKQNRLLKTRSGGHDYEGLSYLTNTNQ PFFIVDMFNLR SINVDIE
WL64	98	AVVCAKTHRLLMKTRSGGHDYEGLSYVTNSNQ PFFVDMFNLR SINVSIE
At26	71	AITCGKRHNLOMKIRSGGHDYDGLSYVTYSGK PFEVLDMFNLR SVDVDA
At27	70	SIICSKKLGIFRVRSGGHDYEGLSYVSRIEK PFIILLDL SKLKQINVDIE
EcBBE	86	TIRCI RKGSWTIRLRSGGHSYEGLSYTSDT--PEILIDL MNLRVSIDLE
PsBBE	90	TVHCCTRESWTIRLRSGGHSYEGLSYTADT--PEVIVDM MNLRISIDVL

MS59	140	QETAWVQAGATLGEVYYRIA EKS NKHGFPAGV CPTVG VGGHFSGGGYGNL
WL64	148	DETAWVQAGATLGEVYYRIA EKS NSHAF PAGV CPTVG VGGHFSGGGYGNL
At26	121	SKTAWVQTGAILGEVYYIWEKS KTLAYPAGI CPTVG VGGHISGGGYGNM
At27	120	SNSAWVQPGATLGEVYYRIA EKS KIHGFPAGLCTEVCIGGYMTGGGYGTL
EcBBE	134	SETAWVESGATLGEVYYAITESSSKLGFTAGWCPTVG TGGHISGGGF GMM
PsBBE	138	SETAWVESGATLGEVYYAIAQSTDTLGFTAGWCPTVG SGGHISGGGF GMM

MS59	190	MRKYGLSVDNIVDAQIIDVNGKL LDRKSMGEDLFWAITGGGGVSFGVVLA
WL64	198	MGKYGLSVDNIVDAQIIDVNGKL LNRKSMGEDLFWAITGGGGVSFGVVLA
At26	171	MRKYGLTVDNTIDARMDVNGKILDRKLMGEDLFWAITGGGGVSFGVVLA
At27	170	MRKYGLAGDNVLDVKMVDVNGKLLDRAMGEDLFWAIRGGGGASFGI VLA
EcBBE	184	SRKYGLAADNVVDAILIDANGA ILDRQAMGEDVFWAIRGGGGGVWGA IYA
PsBBE	188	SRKYGLAADNVVDAILIDSNGA ILDREKMGDDVFWAIRGGGGGVWGA IYA

MS59	240	YKIKLVRVPEVVTVE TIERREEQNLS-TIAERWVQVADKLDRLFLRMTF
WL64	248	YKIKLVRVPTTVTVENVQRTSEQNLS-TIAHRWQVADKLDNDLFLRMTF
At26	221	YKINLVEVPENVTVFRISRTLEQNAT-DLIHRWQVAPKLPDELFIRTVI
At27	220	WKIKLVPVPKTVTVFTVTKLEQDARLKTISKWQQLSKIEEIRHIVVL
EcBBE	234	WKIKLLPVPEKVTVFRVTKNVAIDEATSL LHKWQFVAEELEEDF---TL
PsBBE	238	WKIKLLPVPEKLTVFRVTKNVGIEDASSL LHKWQYVADELEEDF---TV

MS59	289	SVINDTNG-GKTVRAIEFTLYLGNSRNLVTL LNKDPELGLQESDCTEMS
WL64	297	NVINNTNG-EKTI RGLFPTLYLGNS TALVAL LNKDPELGLVEISDCIEMS
At26	270	DVVGTVSSQKTVRTTEIAMFLGDTTTL SILLNRREFELGLVRS DCTETS
At27	270	RAAGNDGN--KTVTMTYLGQFLGEGKTL LKVM EKAEP ELGLTQKDCTEMS
EcBBE	280	SVLGGADE--KQVWLTMLGFFHGLKTVAKSTFDLLFPELGLVEEDYLEMS
PsBBE	284	SVLGGVNG--NDAWLMFLGLHLGRK DAAKTIIDEKEPELGLVDKEFQEMS

FIG. 10A



MS59	338	WVESVLYYTGFPSTPTTALLSRTP-QRLNPFKIKSDYVQNPI SKROFEEF
WL64	346	WIESVLFYTNFPIGTPTTALLSRTP-QRLNPFKIKSDYVKNTISKQGFES
At26	320	WIQSVLFWTNIOVGSSETLLQRN--QPVNYLKRKSDYVREPI SRTGLES
At27	318	WIEAALFHGCFPTGSPIEILLQLKSPLGKDYFKATSDFVKEPIPVIGFKG
EcBBE	328	WGESFAYLAGLET--VSQ LNNRFLKFDERAFKTKVDLTKEPLPSKAFYG
PsBBE	332	WGESMAFLSGLDT--ISELNNRFLKFDERAFKTKVDFTKVSVP LNVERH

MS59	1	FIFERLKELENQMLAFN PYGGRMSEISEFAK PFPHRSGNIAKIQYEVNWE
WL64	1	SIFERMKELENQMLAFN PYGGRMSEISEFAK PFPHRSGNIAKIQYEVNWD
At26	1	SIWKKMIELEIPTMAFN PYGGE MGRISSTVTFPPYRAGNLWKIQYGANWR
At27	1	GIEKRLIEGNTTFLNWT PYGGMMSKIPE SAI PFPHRNGTLFKILYYANWL
EcBBE	1	GLLERLSKEPNCFIALNGFGGQMSKISSDFT PFPHRSGTRLMVEYI VAWN
PsBBE	1	HALEMLS EQPGGEI ALNGFGGKMSEISTDFT PFPHRKGT KLMFEYI IAWN

MS59	51	DLSDAEANRYLNFTRLMYDYMTPFVSKNPRKAFLNYRDLDIG-INSHG--
WL64	51	ELGVEAANRYLNFTRVMYDYMTPFVSKNPREAFLNYRDLDIG-VNSHG--
At26	51	DET--LTD RYMELTRKL YQFMTPFVSKNPRQSFFNYRDYDLG-INSHNG-
At27	51	END-KTSSRKINWIK EINYMAPYVSSNPRQAYVNYRDLDFG-QNKNN--
EcBBE	51	QSEQKKKTEFLDWLEKV YEFKPPFVSKNPRLG YVNHIDL DLGGIDWGNKT
PsBBE	51	QDEESKIGEFSEWLAKFYDYLEPFVSKPRVGYVNHIDL DLGGIDWRNKS

MS59	98	-RNAYTEGMV-YGHKYFRETNYKRLVSVKTKVDPDNFFRNEQSIPTLSS-
WL64	98	-KNAYGEGMV-YGHKYFRETNYKRLTMVKTRVDPDSNFFRNEQSIPTLSSS
At26	97	KISSYVEGKR-YGKKYFAG-NFERLVKI KTRVDSGNFFRNEQSIPVLP--
At27	97	AKVNFIEAKI-WGPKYFKG-NFDRLVKI KTKVDPENFFRHEQSIPPMFY-
EcBBE	101	VVNNAIEISRWSGESYF LS-NYERLIRAKTLIDPNNVFNHPQSIPP MANF
PsBBE	101	STTNAVEIARNWGERYFSS-NYERLVKAKTLIDPNNVFNHPQSIPPM MKF

MS59		-----
WL64	146	WK-----
At26		-----
At27		-----
EcBBE	150	D--YLEKTLGSDGGEVVI
PsBBE	150	EEIYMLKEL-----

F I G. 10B